



2080 VEM1 Video Encoder

2081 VDM1 Video Decoder



FEATURES

- Single slot module
- Selectable compression mode
- Hardware-based MPEG II encoding/decoding
- Channel bit rate from 72 Kb/s To 17.5 Mb/s
- Adjustable video attributes: Brightness, Contrast, Tint
- Transmission of all pertinent parameters
- Only the data source identifier (Ch ID) is programmed on the decoder module
- Video decoder is automatically controlled by the setup program on the encoder
- Dynamic adaptation to variations in the video source frequency.
- Programmable video frame rate and encoding mode

OVERVIEW

The 2080 VEM1 and 2081 VDM1 modules encode and decode video signals utilizing the MPEG II digital video standard. The 2080 encoder module compresses video data into packets that are transported at a user selectable bit rate. Integrated into an AL4300 Multiplexer, the digital video data are multiplexed with the packetized data from other input modules. The resultant composite data stream is then transported to an AL4300 Series Demultiplexer, which utilizes one or more 2081 VDM1 decoder modules to extract and capture the data and convert it to analog video. The analog signal is suitable for an output on a display or recording device.

SPECIFICATIONS

NUMBER OF CHANNELS

- 1 Channel on BNC type connector

VIDEO INPUT

- 75 Ohm input termination BNC connectors
- NTSC / PAL Composite
- 1Vp-p, 60/50Hz

VERTICAL RESOLUTION

- 480 / 240 lines per NTSC frame
- 576 / 288 lines per PAL frame

HORIZONTAL RESOLUTION

- 720 / 360 pixels per line for both NTSC or PAL

FRAME MODES

- Normal MPEGII Compression
- I-Frame only
- I-Frame Non-Interlace
- Selectable Reduced Frame Rates
- (0.25 Fps to 30 Fps)

CHANNEL ID

- 11-bits 0x000 to 0x7FO

COMPLIMENTARY HARDWARE

- 4027 AVEM1 Module